CONTROL DIVISION - INDIANA STATE BOX MPDES PennitH ZNCO24741 Dick Diet Design How (mgd) - _ WABASH _ 1980 Pop. - 11 FLYCLE Receiving Stream - -BOD/05/SS 16/10/94 6-9 F.Coll. 201 012 100 Phos-P NH -N Permit Conditions, Monthly Values: U- Utisatisfactory S - Satisfactory M - Marginai Sewer type and maintenance DEPICATED TO COA Lift stations and alarms NONE Combined sewer overflows Bypasses Comminutor Screens occurs PERATED BY THEIR PERSONNEL Grit removal V-NOT CH Flow meter and recorder CALIBRATED SONIC. ME Meter calibration NONE ASSIE Primary clarifier Aeration tank/ditch Trickling filter TION PRC FUNCTIONAL Secondary clarifier AST/AWT facilities TO EPPLUENT Chlorination equipment Chlorine contact tank DEMIAND TOO FINAL EFFLUENT I-BODS (1 Aerobic digester CONTROL Angerobic digester Sludge handling Sludge disposal LIC ATION Common DAILY CEAKS OF Hydraulic loading 094 Organic loading SECONDALY BOD removal PLANT ONL SS removal MA Phosphorus removal Industrial waste Pumps NON-FUNCTION VUTRIENT ADDITION Laboratory methods REVIEWER 11 Quality control Calibration of equipment MRO and records OMRIG MAINTEN ANCE composITE , 77/1085 Sample type and frequency MAINTENANCE KRO C Maintenance program CAN Housekeeping LIEVELS EXPERIENCED IN THE PLANT. N.P.D.E.S. Compliance Notice of Violation NONE Order of Compliance Consent Decree BREAK WATER TANK Cross connections Properly certified operator 30-5 Weather conditions inepa BEOMINEN Letter needed Inspected by - W Cert. Op. Name,

Class & No.

SBH65-128

SF28665

10/84

JOHN WONDERLY

WATER POLLUTION CONTROL DIVISION - INDIANA STATE BUARD OF HEALTH WASTEWATER TREATMENT PLANT INSPECTION FORM

NPDES PERMIT # 10024741

MUNICIPALITY WABASH - CCA Person Interviewed JOHN WINDERCY

COMMENTS and/or RECOMMENDATIONS:

D PAPER PRODUCTS ARE RECEIVED AT THE SECONDAR PLANT FROM OCA CAUSANG PLUGS IN SCUPGE DRAW-OFF (RETURNS) LINES AND HIGH MAIN-TENANCE BEQUIREMENTS TO DIFFUSORS. 2) (3) OUT OF (4) OF THE CHECK VALUES LO-CATED ON THE LARGEST BLOWERS WILL NOT FUNCTION. BLOW BACK THROUGH NON-OPERA-TIONAL BLOWERS CAUSES A LOSS OF EFFICIENCY AND BLOW-OFF TO THE ATMOSPHERE. A SPACE MOTOR HAS BEEN USED TO MAKE A BCOWER OPERATIONAL NO BEPLACE MENT HAS DEEN PUL-CHASED. AN ADDITIONAL SMALLER (INTERMEDIATE) BLOWER WAS INSTALLED IN YEARS PAST TO MEET THE DEMAND OF ORGANIC OVER COADING. OPERATOR MUST RUN 2- LARGE; 1- INTERMEDIATE TO MEET AIR PEMANOS

3) OPERATORS HAVE CONTROLLED RETURN ACT.
SLUDGE USING THE ISOLATION UALUES ON
THE CLARIFIERS. HOWEVER, VALUES MUST BE
Inspector: W. MCELHANEY

CONT. PAGEZ=

NPDES PERMIT: # 170,0024741

MUNICIPALITY WARASH - CCA Person Interviewed SOHN WONDER CY

COMMENTS and/or RECOMMENDATIONS:

3) ADJUSTED NEARLY OPEN TO PEDUCE PLUGBING. THIS CAUSES HIGH FLOWS THEKE FORE A HIGH HEAD IN THE MUDWELL. DIRECTLY CONNECTED TO THE MUDWELL IS THE RETURN LINE FROM AN APDED-ON CLARIUAC. WITH A HIGH HEAD IN THE MUDWELL AN INCREASE HEAD OCCURS IN THE RETURN CHANNEL OF THE RETURNUAC CAUSING FLOATATION OF THE COC-LECTOR UNIT AND LOSS OF SIPHON. OPERATORS HAUE ADDED WEIGHTS TO COMPENSATE, RETURN SCUBGE EFFICIENCY IS GREATLY AFFECTED. AU THREE SLUDGE BETURN PUMPS ARE USED TO KEEPLUP WITH THE HIGH FLOW FROM THE CLARIFIERS (ORIGINAL DESIGN @PUMPS WITH (1) BACKIUP).

4) VIOLATION OF FECAL COLIFORM LIMITATIONS OCCUR ON AN AVERAGE 6-7 TIMES/MONTHLY, ONLY REDUCTION IN BODE-TSS LOADINGS IN THE EFFL-MENT WILL ALLOW PROPER REPUCTION OF
PATHOGENIC ORGANISMS. CHLORIN ATOK ARE SET
Inspector: N. MCELHANEY
AT MAXIMUM OUTPUT,

SBH65-129 SF28701

CONT. PAGE 3-

NPDES PERMIT # IN CO 24941

MUNICIPALITY WASA-SA-CCA Person Interviewed SOHN WONDERLY

COMMENTS and/or RECOMMENDATIONS:

5) FOAM AND HEAVY SOUDS BEING DISCHARGED AT TIME OF WSPECTION. FREQUENT UIOLATION OF T-BODS + T.S.S. + FECAL COCIFORM.

6) THE HEAVY SOLIDS LOADING OF THE PLANT CAUS-ES HIGH BATES OF SOLIDS HANDLING THROUGH THE BELT PRESS. THE SLUDGE CAKE PUMP 15 IN ADEQUATE TO HANDLE THE CAKE OFF-OF THE PRESS. PERSONNEL ADD WATER TO THE CAKE SOTHAT THE PUMP WILL HANDLE THE SLUDGE + PUMP TONSPREADER TRUCK. THE EFFICIENCY OF THE PRESS IS GREATLY RE-

PUCEP AND AN INCREASE IN SOLIDS HANDL-ING OCCURS, PURING PEAULY SOLIDS LOADING OF THE TREATMENT PLANT THE OPERATOR 15 WASTE EFFECTIVELY (THEREFORE HADE OPTIMUM TREATMENT) BECAUSE OF A LOSS OF BELT PRESS EFFICIENCY,

7) PEAK MAXIMUM FLOWS (RATE) HAVE REACHED

3.2 MGD. THIS WOULD NOT BE OF A GREAT

Inspector: W. MCELHANEY (ONSEQUENCE TO TREAT-

MENT IF OVERLUAPING

		•					
LEX	POLLUTION CONTR	OL DIVISION -	INDIANA	STATE	BUARD	OF HEALTH	
	WASTEWATER						
			114()1	201101	a i Omini		

MUNICIPALITY WABASH - CCA Person Interviewed JOHN WONDERCY

COMMENTS and/or RECOMMENDATIONS:

OF THE TREATMENT PLANT WAS NOT SO GREAT. WITH PEAK FLOWS SO SCUNGE CARRY-OVER IN

- THE SECONDARY CLARIFIERS IS EULOENT, (FBODS) MASS LOADINGS EXCEED CONTRACT LIMITATIONS 27 OUT OF 30 DAYS - MONTHOF NOVEMBER.
- 9) PRIMARY REMOVIAL AT SCA FACTORY WAS A NEGATIVE RATE FOR TODOS & TIS, WHICH GREATLY OVERWAPS THE SEC. SYSTEM
- 10) AMMONIA PHOSPHORUS ADDITION 15 ACCOMPLISHER BY ORIPPING THE SOLUTIONS FROM A PUC STACAGE METERING PUMPS & LINES NEED REPLACED. POLY-MER FRED + PUMPS NEED REPLACED AND/OR REPOULT.
- 11) A CONTRACT FOR OGNI OF THIS TREATMENT PLANT BY WABASH (CITY OF) * EXIST, HOWEVER, THE CONTRACT DOES NOT APPRESS MAJOR ITEMS OF REPLACEMENT OX REPAIR (SEE ITEMS ABOUT). THERE FORE THE ABOUE & HAYENOT BEEN CORRECT ED WITH NO INDICATION THAT FUNDS WILL Inspector: W. MCFLAREY BE MADE AUAILABLE FOX THEIR CORRECTION.

SBH65-129 SF28701

ENANCE (WILL EQUIPMEN ON MAJOR TREATE SEVENE ORGANIC OVERLOAP-THE PLANT BY CONTAINER CORP. FAMERICA (CCA). T THE DISCHARGE RR THE CITY SIGNED WITHS OPERATOR HAS SENT NUMEROUS LETTERS APPRESSING RESULTS WERE FORTHEOMING Bay-out By 12. COMPLAINT ORDER PODRESSED UN ATTACH SIGNED DATE SEND PARTS 1 AND 3 INTACT - PART 3 WILL BE RETURNED WITH REPLY.

DETACH AND FILE FOR FOLLOW-UP

Attachment 11

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General

The City of Wabash operates two separate parallel treatment systems at the same site. One is a Class III, 2.75 MGD, municipal wastewater treatment plant having grit and comminution facilities followed by an activated sludge/biological treatment system prior to effluent chlorination.

The City also operates and maintains the municipal/industrial wastewater treatment plant owned by Container Corporation of America (CCA). The plant is located on City property while CCA provides the necessary operating capital. CCA recycles waste paper into cardboard with its wastewater being pretreated by primary settling prior to its wastewater acting as the influent to the municipal/industrial plant.

The municipal/industrial wastewater treatment plant is classified as a Class III, 2.0 MGD, activated sludge/biological treatment system with effluent chlorination. The treatment plant receives up to 1.0 MGD of primary effluent from the municipal plant to provide nutrient supplement for enhanced biological growth.

The two (2) plants have a common outfall No. 004 to the receiving stream. The total loading of pollutants being discharged would be the sum of outfall No. 004A (municipal plant) and No. 004B (municipal/industrial plant). The receiving stream for the treatment plants is the Wabash River. According to 1983 U.S.G.S. data, the estimated 7-day, 10-year low flow of the Wabash River is 29.0 cfs or 18.7 MGD. The indicated downstream uses are for partial body contact recreation and aquatic life.

Waste sludge from each plant is pumped to separate digestion facilities with ultimate or final disposal of the sludge destined for land application purposes.

As of October 1984, the City's pretreatment program is ready for public notice and has already been approved by EPA.

The City also has a smaller outlying wastewater treatment plant known as the Union Mills plant which is covered by a separate NPDES Permit No. IN 0035653. The plant utilizes the extended aeration process and has a design flow of 9,000 gpd into Treaty Creek.

The following data is descriptive of each outfall (004A and 004B) for the period of January 1983 through June 1984.

Gotfall 904A (Manacipal Pront)

Ellinear Canameter . 20	mility Averaged my factors	Herital Albania in 1997
Flow (800)	(2.05)	(0.83)
BOD	14.3	33
BOD % Removal	(89)	(92)
Total Suspended Solids	9	27
TSS % Removal	(91)	(96)
Fecal Coliform	(51/100 ml)	(159/100 ml)
T. Residual Chlorine	0.3 min.	(1.0 max.)
pH units	(6 min.)~	(7.9 max.)

Outfall 004B (Municipal/Industrial Plant)

Effluent Parameter	Monthly Average 1b/day	Weekly Maximum lb/day
Flow (MGD)	(1.13)	(3.81)
BOD ₅	274	1,167
BOD ³ % Removal	(97)	(99)
T. Suspended Solids	528	3,279
TSS % Removal	(98)	(100)
Fecal Coliform	(6,944/100 ml)	(122,000/100 ml)
T. Residual Chlorine	(0 min.)	(1.0 max.)
pH units	(5.7 min.)	(7.7 max.)

Attaclament TIL

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Curryll white (Controlpel Limot)

Effluent Parameter	Discharge Limitations F Monthly Average Weekly Maximum	ionitoring Rec Frequency	guirements Type
The Francisco Control of Control	HOREN THE HERE	rrequency	Type
Flow C. BOD * T. BOD 5 T. Suspended Solids Fecal Coliform*** pH units		5 X Weekly Weekly 5 X Weekly 5 X Weekly 5 X Weekly and 9)	Continuous 24-Hr. Comp. 24-Hr. Comp. 24-Hr. Comp. Grab

*This analysis shall be from a split sample taken the same day as one of the T. BOD₅ samples. The analysis of both C. BOD₅ and T. BOD₅ is being required for comparative purposes. The need to do C. BOD₅ analysis shall cease one-year after the effective date of the permit.

**Or 85% removal, whichever is more stringent.

***The effluent shall be disinfected on a continuous basis from April 1 to October 31. If disinfection by chlorine is used, a chlorine residual shall be maintained at a concentration not to exceed a maximum of 1.0 mg/l. In addition the Permittee is required to undertake a program of chlorine minimization by reducing the amount of chlorine used to the greatest extent possible, while still complying with the Fecal Coliform limitations. Effluent chlorination is not required and should not be practiced from November 1 through March 31.

These limits are based on Wastewater Treatment Guidelines for municipal wastewater treatment plants with secondary treatment that discharge to streams with flows that provide greater than 3:1 dilution. The limits are also based on 40 CFR Part 133, Secondary Treatment Regulations which specifically include CBOD₅. Normally, an analysis would be required for CBOD₅ five times per week in addition to a once-per-week analysis for TBOD₅ (for one year) for comparative purposes. However, due to the TBOD₅ mass-based limitations on outfall 004B (Municipal/Industrial Plant), TBOD₅ will be continued five times weekly in place of CBOD₅ while CBOD₅ is to be analyzed only once-per-week at both outfalls. This rationale should provide some uniformity in the analysis required at outfalls 004A and 004B.

The fecal coliform and pH limitations are based on ISPCB regulation 330 IAC 1-1 for the Wabash River being designated as the receiving stream for the discharges from outfalls 004A and 004B.

Monitoring regularements are from Technical Penesse 71-3041.

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One as 1 5045 Churto passificant, as his

Flow 5 X Weekly Continuous C. BOD * 24-Hr. Comp. Weekly T. BOD, 1,025 lbs/day 1,538 lbs/day 5 X Weekly 24-Hr. Comp. T. Suspended Solids 1,667 lbs/day 3,250 lbs/day 5 X Weekly 24-Hr. Comp. Fecal Coliform** 200/100 ml 400/100 ml 5 X Weekly Grab pH units (limited between the range of 6 and 9)

*See similar note on Page \$ concerning \mathtt{CBOD}_5 for outfall 004A.

**See Fecal Coliform and Total Residual Chlorine note on outfall 004A, page 8.

The limitations on this outfall for TBOD₅ and T. Suspended Solids have been retained from the expiring permit and are based upon an agreement reached by the Indiana Stream Pollution Control Board, the U.S. EPA, Container Corporation of America, and the City of Wabash as referenced in the permit modification of September 15, 1976. These limitations are more stringent than what the limitations would be if BPT for the Pulp and Paper Point Source Categories Effluent Limitations Guidelines (40 CFR Part 430.50 - 430.54; promulgated November 18, 1982) for CCA (based on 311 tons/day of paperboard produced from recycling waste paper) and secondary limitations for the municipal portion of this waste stream were added together.

Limitations for fecal coliform, pH, and $CBOD_5$ are based on the same requirements as those mentioned for these same parameters for outfall 004A.

Bypass/Overflow authorization is given when systems (treatment plant or combined sewers) are hydraulically overloaded or upon failure of wastewater treatment plant systems.

Expiration Date

A five-year permit is proposed.

Note: CCA does not use chlorinated phenolic biocides in its paperboard manufacturing processes. Thus, this permit does not limit trichlorophenol or pentachlorophenol, pursuant to 40 CFR 430.54.

Drafted by Robert Kelsey November 1984

WPC 29L/e 3/7/84

Post Public Notice Addendia - 2/26/85

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The expiring permit classified the combined Municipal/Industrial plant (outfall 0048) as a Class III Municipal based mainly on the fact that the City is the operator and the operator is required under State and Federal Regulations to obtain a permit. However, due to that fact that the plant is dedicated to the treatment of CCA wastewater and discharge limitations are reflective of Industry standards and not Municipality standards, an Industrial classification is now being made. Therefore, on pages 2 and 5 of the permit for outfall 004B, the plant classification (previously Class III Municipal and now a Class C Industrial) and the discharge limitations (from monthly to daily average and from weekly to daily maximum) have been changed to reflect the new Industrial classification.

As a result of some of the aforementioned changes, the Fecal Coliform notation on Page 7 has been deleted and added on Page 2 and Page 5 (to be "calculated as a geometric mean,") in the permit.

A paragraph on the bottom of Page 4 in the Permit was added in response to comments received by U.S. EPA (Region V). The Pretreatment Program for the City of Wabash has not been approved yet. Pretreatment requirements shall become effective when the U.S. EPA and the State of Indiana approve the permittee's program.

Outfall numbers 004A and 004B have been changed to 104 and 204, respectively, due to tracking difficulties. Both outfalls discharge thru 004. Drafted by R. A. Kelsey

WPC 29L/e 3/7/85

WABASH COUNTY:

Container Corp. 455 Factory St. Wabash, IN 46962

Wabash County Board of Health:

Brian Wallik (5/14/87)(219)-563-0661 Ext. 51
Container has a lot of dark smoke coming from their stacks.
Wallik has reported this to DEM (air management).
Container also has a lagoon that they use for paper waste (produces phenolic resins). Container claims this is not a problem, but Wallik is uncertain whether or not it is.

See File 201 for paper mill sludge (from lagoons) analysis.